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NALYSIS

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PHOTOGRAPHIC INTELLIGENCE REPORT

CHINESE POWER PLANTS

ANHWEI PROVINCE

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Declass Review by NIMA / DOD

DATE JULY 1966

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CHINESE POWER PLANTS

ANHWEI PROVINCE

- (A) Ching-hsien Hydro Power Plant (Chen-tsun)
- (B) Ho-shan Hydro Power Plant (Fu-tzu-ling)
- (C) Hua-liang-ting Hydro Power Plant
- (D) Huai-nan Thermal Power Plant (Tien-chia-an)
- (E) Ma-an-shan Thermal Power Plant
- (F) Mao-chien-shan Hydro Power Plant
- (G) Tu-shan Hydro Power Plant (Hsiang-hung-tien)
- (H) Yang-chia-tan Hydro Power Plant (Chin-chia)

REQUIREMENT

C-RR5-83,218

CIA/IAD PROJECT

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CHING-HSIEN HYDRO POWER PLANT (CHEN-TSUN)

NPIC NUMBER - 71

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Ching-hsien Hydro Power Plant (Chen-tsien) is located approximately 6.0 nm south-southwest of Hung-tsun on the Ma-chuan Chi (River) at coordinates 30 29 40N - 118 10 00E. This facility is not completed and appears to be in an arrested state of construction. The dam and probable substructure for the powerhouse were observed to be complete when first seen. Coverage revealed no apparent change.

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The dam is of the arch, concrete type with a probable spillway at the eastern end and probable substructure for a powerhouse near the west bank. The open end of the substructure is enclosed by a cofferdam which is currently flooded. Flooding of this area probably indicates that the site is inactive and has been so for some time.

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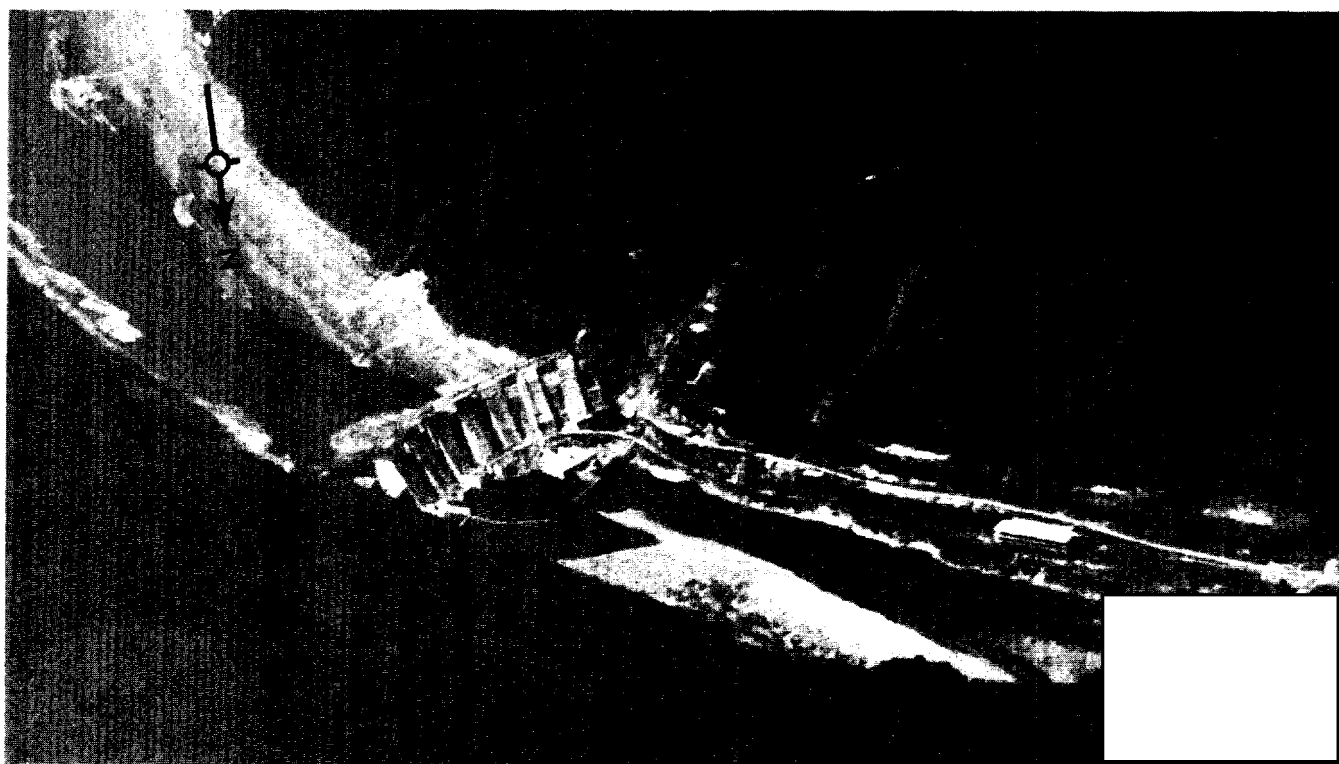
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FIGURE 2

CHING-HSIEN HYDRO POWER PLANT (CHEN-TSUN)



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HO-SHAN HYDRO POWER PLANT (FOU-TZU-LING)

NPIC NUMBER - 95

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The Ho-shan (Fou-tzu-ling) Hydro Power Plant is of the consolidated concrete type and is located 5.4 nm southwest of Ho-shan at coordinates 31 18N - 115 17E.

The dam appears to be completed, but some work apparently remains on the generator hall and substation. The generator hall presently appears large enough for two or three units and is still enclosed by a cofferdam, indicating that construction may not be completed.

The reservoir water level is considerably below the level of a spillway located at the east end of the dam and has remained apparently stationary.

No turbulence or new construction has been observed at this facility for which coverage exists.

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FIGURE 3

HO-SHAN HYDRO POWER PLANT (FOU-TZU-LING)



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HUA-LIANG-TING HYDRO POWER PLANT
NPIC NUMBER - 87

The Hua-liang-ting Hydro Power Plant is located on the Tai-hu Ho
(River) 3.0 nm northwest of Tai-hu at coordinates 30 28 00N - 116 15 20E.

[redacted] revealed that the facility is incomplete
and apparently inactive. An earthen dam and a water intake tower have been
completed, and scarring for a spillway and possible footings for a power-
house are evident. No water is impounded behind the dam.

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HUAI-NAN THERMAL POWER PLANT (TIEN-CHIA-AN)

NPIC NUMBER - 32

Huai-nan Thermal Power Plant (Tien-chia-an) is located on the Huai Ho (River) in the northern sector of Tien-chia-an at coordinates 32 40 57N - 117 01 20E. The plant is rail-served, coal-operated and consists of a coal handling and preparation building, substation with a small control building, and several support/storage buildings. The building contiguous to the eastern side of the generator hall probably also serves as a control house.

The boilerhouse is of three distinct designs and appears to have six or seven boiler units. The small northern section is equipped with a single metal roof-stack (C) and could house one or two boiler units. The center section is equipped with three sets of flues which connect with free-standing, masonry stack B. There may also be three small dust-catchers, suggesting the presence of three boiler units. The taller, southern boilerhouse has two pairs of flues that join free-standing masonry stack A, and probably has two large boiler units operable. The generator hall consists of three distinct sections. The southern and central units are each equipped with a single longitudinal monitor; the northern section is apparently flat-roofed and is equipped with two small widely-spaced vents or short monitors. Available coverage was either of small scale or poor quality, thereby precluding detection of power cables.

There was no apparent change in plant facilities

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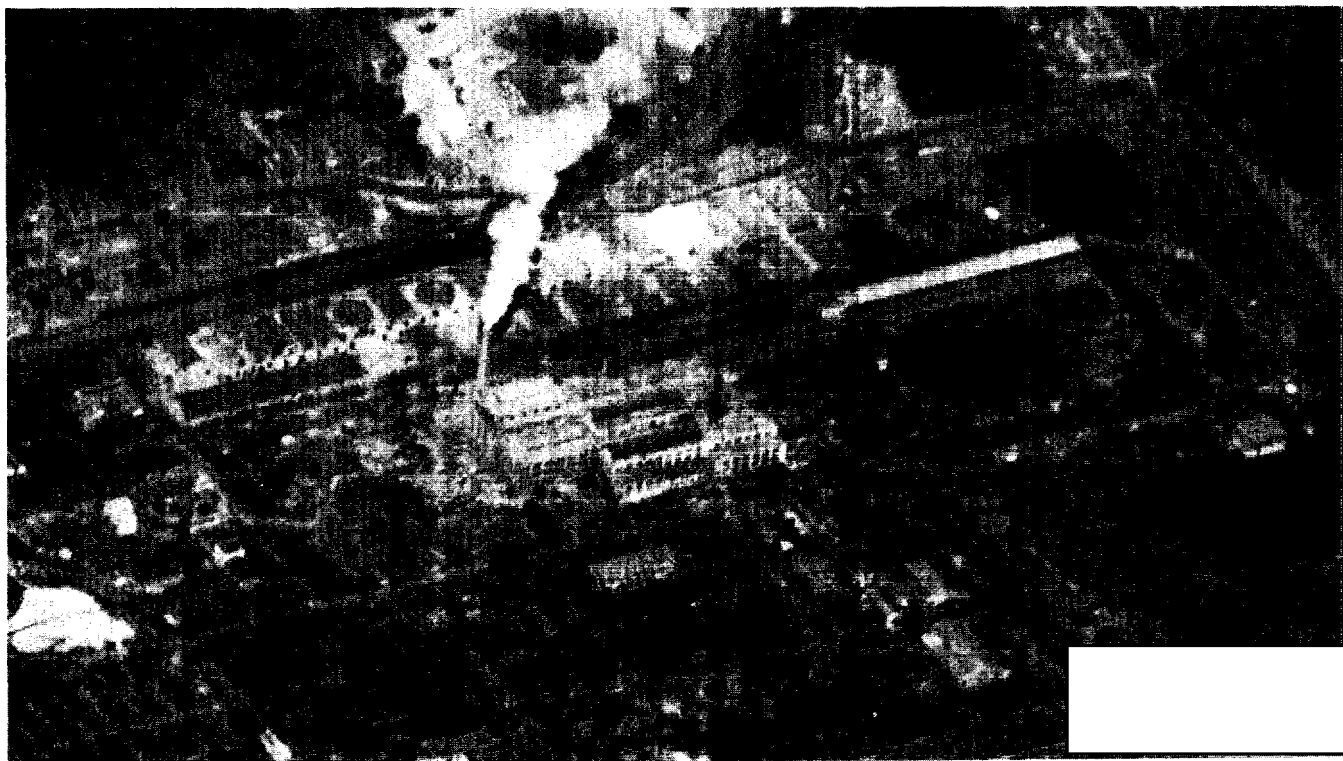
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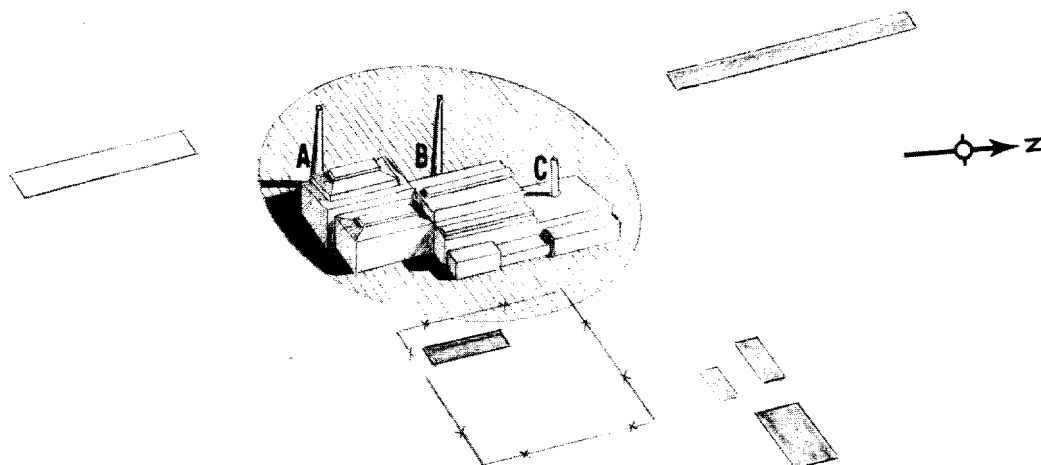
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FIGURE 4

HUAI-NAN THERMAL POWER PLANT (TIEN-CHIA-AN)



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HUAI-NAN THERMAL POWER PLANT (TIEN-CHIA-AN)

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	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Heavy smoke from stack A. Light smoke from stack B.
	None	Heavy smoke from stack A. Light smoke from stack B.
	None	Heavy smoke from stack A.
	None	Moderate smoke from stack A.
	None	Poor film quality precludes analysis.
	None	Clouds preclude analysis.

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HUAI-NAN THERMAL POWER PLANT (TIEN-CHIA-AN)

	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Moderate smoke from stack A.
	None	Moderate smoke from stack A. Light smoke from stack C.

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MA-AN-SHAN THERMAL POWER PLANT

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NPIC NUMBER - 24-A

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Ma-an-shan Thermal Power Plant is located on the eastern bank of the Chang Chiang (River) in the western section of Ma-an-shan at coordinates 31 43 19N - 118 27 50E. The facility is coal-operated, water-served and consists of two powerhouses, two substations with at least three transformers apparent, small control house, coal storage and conveying facilities, and numerous small support/storage buildings.

The northernmost facility (B) is obviously the older of the two powerhouses and is equipped with a small conveyor system and substation. Smoke from the larger powerhouse continually covered this facility, making it impossible to discern the number and location of stacks, vents, and other boilerhouse details. The generator hall appears large enough for three small units. The southern extension of the hall may have been added later to accommodate an additional generator. This section is connected to the boiler section of the large powerhouse to the south by a steam line. There are apparently two transformers just east of the generator hall; three other pieces of equipment, either small transformers or circuit breakers, are located nearby.

The larger powerhouse is of modern design and probably has two boiler units. The boilerhouse has two dust-catcher units and two pairs of flues which connect to free-standing masonry stack A. The generator hall has a single longitudinal monitor, small contiguous control house, and adjacent transformer. There were no power cables visible. There is a large substation situated east of the plant which serves as a switching facility.

There has been no new construction [redacted] when last observed. The design of the large powerhouse indicates future expansion to the south; also, construction materials were evident [redacted] and several uprights were in place at the south end of the generator hall.

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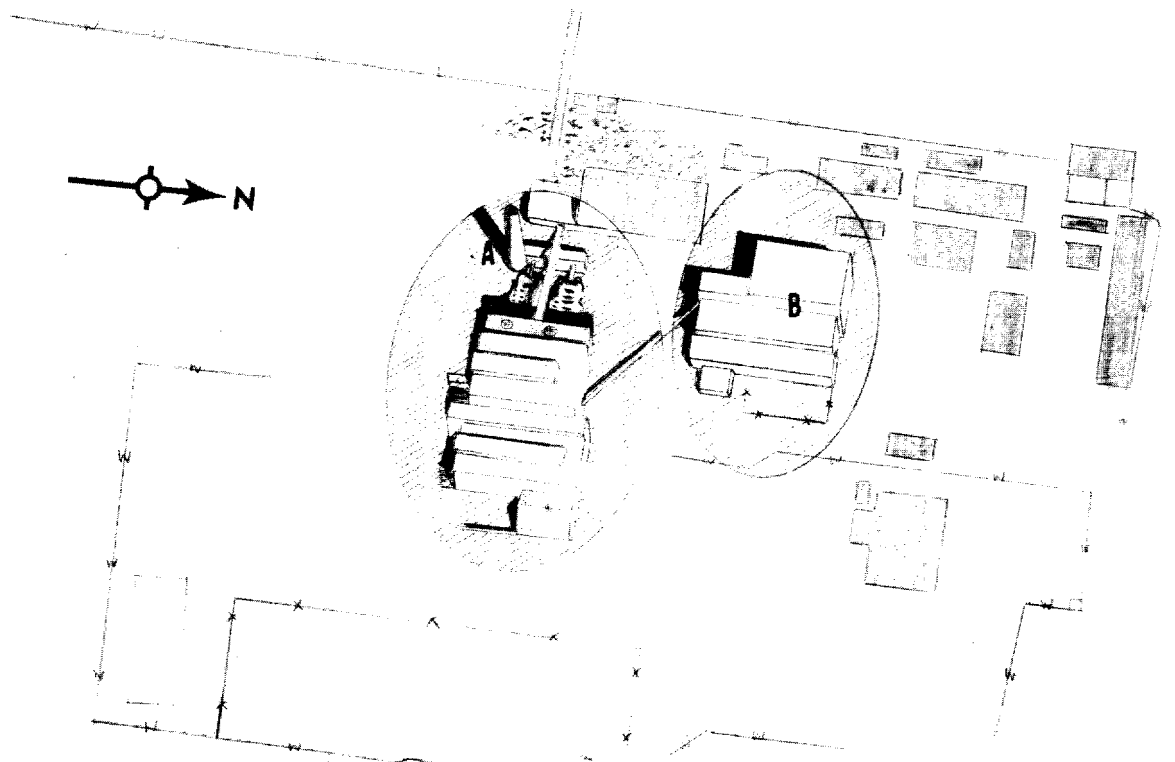
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FIGURE 5

MA-AN-SHAN THERMAL POWER PLANT



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MA-AN-SHAN THERMAL POWER PLANT

	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None apparent; poor quality coverage	Moderate smoke from stack A.
	None	Moderate smoke from stack A. Moderate smoke from stack B.
	None	Moderate smoke from stack A.
	None	Moderate smoke from stack A. Light smoke from stack B.
	None	Moderate smoke from stack A.

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MA-AN-SHAN THERMAL POWER PLANT

	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Heavy smoke from stack A. Moderate smoke from area B.

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MAO-CHIEN-SHAN HYDRO POWER PLANT
NPIC NUMBER - 87

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A search of [] photography failed to locate the Mao-chien-shan Hydro Power Plant reported to be located at coordinates 30 56N - 116 12E. An area within a 25 nm radius of the referenced coordinates was searched [] without results. No hydro power facility could be discerned in the vicinity of the given location. A number of small earthen dams without visible power generating facilities were found in the area, but all were discounted as being part of the subject facility.

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TU-SHAN HYDRO POWER PLANT (HSIANG-HUNG-TIEN)

NPIC NUMBER - 86

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Tu-shan Hydro Power Plant (Hsiang-hung-tien) is located on the Hsi Pi Ho (River) approximately 0.4 nm west of Chi-tou-chung-kou at coordinates 31 32 50N - 116 09 50E. The plant is apparently completed and consists of a concrete, arch-type dam and adjacent, separated powerhouse.

The facility was observed

and showed no evidence of turbulence. All available coverage was of small scale, precluding any analysis of the powerhouse or detection of substation and transmission facilities.

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There was no apparent change in plant facilities

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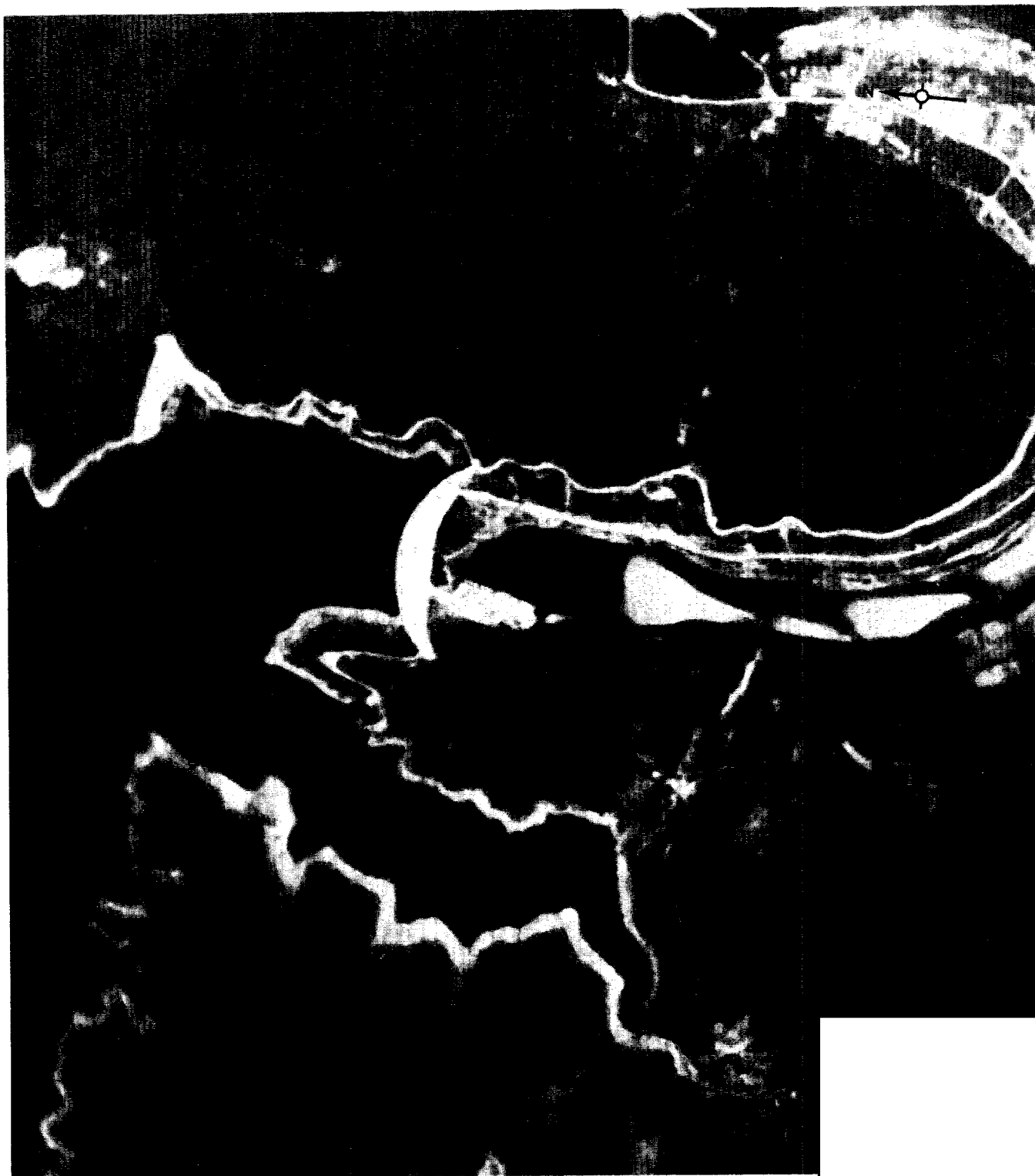
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FIGURE 6

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TU-SHAN HYDRO POWER PLANT (HSIANG-HUNG-TIEN)



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YANG-CHIA-TAN HYDRO POWER PLANT (CHIN-CHAI)

NPIC NUMBER - 89

The Yang-chia-tan Hydro Power Plant, also known as Mei-shan Hydro Power Plant, is located on the Shih-ho (River) 0.75 nm east of Yang-chia-tan at approximate coordinates 31 42N - 115 56E, and consists of a consolidated concrete dam with a powerhouse, sub-station, and separated spillway with apron.

There appears to be five penstock intake control gates atop the dam

Ground photography reveals two transformers mounted on the downstream wall of the powerhouse. At least one and probably both of the transformers were connected by power leads to the sub-station.

No turbulence has been observed from the powerhouse outlets. The reservoir water level remains a considerable distance below the level of the spillway intakes. No new construction has occurred

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FIGURE 7

YANG-CHIA-TAN HYDRO POWER PLANT (CHIN-CHAI)



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